

**Biobased Products Listed by Category**  
Biobased Products – Enhancing DOD’s Mission; Protecting the Environment  
*Biobased Showcase and Educational Event*  
The Pentagon  
12 and 13 September, 2006

Biobased Product Categories Listed in this Table:

Cleaners  
Construction  
Consumer Products  
Feedstocks and Raw Materials  
Hydraulic Fluid  
Lubricants  
Packaging  
Specialty Products

CATEGORY	PRODUCT NAME	PRODUCT DESCRIPTION	COMPANY
<b>Cleaners</b>	Citrus Burst, CitruSoy	These cleaners use blends of concentrated orange oil (or d-limonene) and methyl soyate and contain no hazardous air pollutants. They are used mainly in industrial settings.	<b>Florida Chemical Company</b> 351 Winter Haven Blvd NE Winter Haven, Florida 33881 <a href="http://www.floridachemical.com">http://www.floridachemical.com</a>
	Green Solutions	These cleaners and disinfectants have been used in hospitals, garages, and restrooms.	<b>Spartan Chemical Company, Inc.</b> 1110 Spartan Drive Maumee, Ohio 43537-0110 <a href="http://www.spartanchemical.com">http://www.spartanchemical.com</a>
	HOST	The heart of this carpet-cleaning system is the tiny cellulose SPONGES distributed deep within the carpet fibers. The <i>Host</i> system reduces water use over other carpet cleaners, thereby reducing mold and other allergens.	<b>Racine Industries, Inc</b> 1405 16th St. Racine, WI 53403 <a href="http://www.hostcarpetcleaning.com">http://www.hostcarpetcleaning.com</a>
	Many products	Distributor for biobased industrial cleaners, degreasers, & janitorial products.	<b>Environmental Sustainability Group</b> 421 Maiden Lane Fayetteville, NC 28301 <a href="http://www.envsg.com">http://www.envsg.com</a>
	One Clean Bean	This soybean-based cleaning product line is used in industrial and warehouse settings. It has been especially successful at removing rubber build-up in tire shops like Goodyear and Firestone. <i>One Clean Bean</i> also protects floors so that less cleaning is needed.	<b>SoyBase Products</b> A Division of Cox Industries PO Box 98 Wilson, NC 27894 <a href="http://www.soybaseclean.com">http://www.soybaseclean.com</a>
	Safe-care	- Line of plant oil-based cleaners and solvents for industrial or office use.	<b>Gemtek Products</b> 3808 North 28th Avenue Phoenix, AZ 85017 <a href="http://www.gemtek.com">http://www.gemtek.com</a>

**Biobased Products Listed by Category**  
Biobased Products – Enhancing DOD’s Mission; Protecting the Environment  
*Biobased Showcase and Educational Event*  
The Pentagon  
12 and 13 September, 2006

CATEGORY	PRODUCT NAME	PRODUCT DESCRIPTION	COMPANY
	Soy Clean, Soy Power	Made from soybeans, these cleaning solutions are useful in industrial and residential settings as well as in paint-stripping applications.	<b>Soy Clean</b> 118 W Front Brooklyn, IA 52211 <a href="http://www.soyclean.biz">http://www.soyclean.biz</a> <a href="http://www.soytek.com">http://www.soytek.com</a>
	VertecBio Gold	Made with soybeans and corn; specially formulated for the printing industry. <i>VertecBio Gold</i> is 70% more effective than other similar cleaners and exhibits less volatile emissions. Used in parts washers at Anniston Army Depot and has been successfully demonstrated as a paint-line cleaner at several Air Force Depots.	<b>Vertec BioSolvents, Inc.</b> 1441 Branding Lane Suite 100 Downers Grove, IL 60515 <a href="http://www.vertecbiosolvents.com">http://www.vertecbiosolvents.com</a>
<b>Construction</b>	Agri-home, Agri-core	Structural insulated panels made from renewable resources.	<b>Agriboard Industries</b> Ryan Development Company, L.C. 8301 E. 21st St. North, Suite 320 Wichita, KS 67206 <a href="http://www.agriboard.com">http://www.agriboard.com</a>
	BioBased Insulation	Energy efficient, soy-based foam insulation useful in residential and office buildings. Will not settle over time like conventional insulation.	<b>BioBased Systems</b> 1315 N 13th St. Rogers, AR 72756 <a href="http://www.biobased.net">http://www.biobased.net</a>
	Enviro Board Panels	Concrete-like building panels made from compressed straw. Applications include insulation, sound barriers, drywall.	<b>Enviro Board Corporation</b> 1228 South Westlake Blvd., Unit B Westlake Village, California 91361 <a href="http://www.enviroboardcorporation.com">http://www.enviroboardcorporation.com</a>
	Environmental Liquid-membrane System	Spray applicable polymer coating used in roofing applications is soy-based, waterproof, and resistant to flames, acids, and oils. Successful implementations include the roofs of the Northridge Hospital Medical Center and Chicago’s historical Shedd Aquarium.	<b>Green Products, LLC</b> 221 E. Rocbaar Drive Romeoville, IL 60446 <a href="http://www.greenproducts.net">http://www.greenproducts.net</a>
	Jute-based fiberboard	Fiberboard for paneling applications made from Jute (a drought resistant, annually renewable plant) fibers. Insulating and emitting properties are similar to fiberglass; high strength to weight ratio.	<b>Allsteel</b> 2210 Second Ave, Muscatine, IA 52761 <a href="http://www.allsteeloffice.com">http://www.allsteeloffice.com</a>

**Biobased Products Listed by Category**  
Biobased Products – Enhancing DOD’s Mission; Protecting the Environment  
*Biobased Showcase and Educational Event*  
The Pentagon  
12 and 13 September, 2006

CATEGORY	PRODUCT NAME	PRODUCT DESCRIPTION	COMPANY
	Mohawk Carpet	This company recycles carpeting and also produces a soybean-based carpet backing which is resistant to flames, acids, oils, and water.	<b>Mohawk Carpet</b> 500 Town Park Lane, Suite 400 Kennesaw, GA 30144 <a href="http://www.themohawkgroup.com">http://www.themohawkgroup.com</a>
	Roof Project Management Service	Consulting services for roofing applications.	<b>Roofing Resources, Inc.</b> 608 Chadds Ford Drive - Suite 200 Chadds Ford PA 19317 <a href="http://www.teamrri.com">http://www.teamrri.com</a>
	Utilithane	Vegetable oil-based, spray-applicable polyurethane coating system. It has been successfully used in the protection of roofs, hulls of small ships, and, most notably, sewer pipes in Southern California. <i>Utilithane's</i> formulation is 100% solids.	<b>Prime Coatings, Inc.</b> P. O. Box 3056 Tustin, CA 92781 <a href="http://www.utilithane.com/">http://www.utilithane.com/</a>
<b>Consumer Products</b>	Avant, Aterra	Corn-based hand products used in food-service and other hygiene-related industries; kills 99.99% of germs within 15 seconds.	<b>B4 Brands</b> 1001 North Washington Street Lisbon, Iowa 52253 <a href="http://www.b4brands.com">http://www.b4brands.com</a>
	Avant, Aterra	Distributor for B4 Brands	<b>Green Line Bio-Hygiene Products</b> 907 6th Street, SW Suite 809 Washington, DC 20024 <a href="http://www.bio-hygiene.com">http://www.bio-hygiene.com</a>
	Ingeo Fiber-based Socks	These naturally dyed, corn-based fibers are knitted into socks. The socks are fully compostable.	<b>Fox River Mills</b> P.O. Box 298 Osage, Iowa 50461-0298 <a href="http://www.foxrivermills.com">http://www.foxrivermills.com</a>
<b>Feedstocks and Raw Materials</b>	Natural oil polyols	These soybean-based monomers comprise one component of a polyurethane system. The <i>polyols</i> are easily produced by suppliers using current processes.	<b>The Dow Chemical Company</b> 2030 Dow Center Midland, Michigan 48674 <a href="http://www.dow.com">http://www.dow.com</a>
	Natureworks  Ingeo Fibers	- Polylactide pellets made by fermenting corn starch to lactic acid and polymerizing the acid; can then be used in packaging or textile products. - Corn-based fibers for use in clothing and fabric-making; fully compostable.	<b>Cargill</b> P.O. Box 5700, MS 66 Minneapolis, MN 55440 <b>Cargill Government Solutions</b> 1101 15th St. NW, Suite 1000 Washington, DC 20005 <a href="http://www.natureworkslc.com">http://www.natureworkslc.com</a> <a href="http://www.ingeofibers.com">http://www.ingeofibers.com</a>
	Polyhydroxyalkanoate (PHA)	Biopolymers that are natural byproducts of microbial metabolism (fermentation). Metabolic pathways can be modified to yield the polymer with desired properties.	<b>Metabolix</b> 21 Erie Street Cambridge, MA 02139-4260 <a href="http://www.metabolix.com">http://www.metabolix.com</a>

**Biobased Products Listed by Category**  
Biobased Products – Enhancing DOD’s Mission; Protecting the Environment  
*Biobased Showcase and Educational Event*  
The Pentagon  
12 and 13 September, 2006

CATEGORY	PRODUCT NAME	PRODUCT DESCRIPTION	COMPANY
	Susterra, Zemea	Industrial ( <i>Susterra</i> ) and commercial ( <i>Zemea</i> ) grade glycols made by fermenting corn. Used in a variety of applications like cosmetics, heat exchange, and de-icing.	<b>DuPont</b> DuPont Building 1007 Market Street Wilmington, DE 19898 <a href="http://www.dupont.com/sorona">http://www.dupont.com/sorona</a>
<b>Hydraulic Fluid</b>	Cosmolubric B-series	Canola oil-based fluid used in heavy-duty hydraulic equipment. It is anhydrous, and therefore it has good excellent film strength and lubricity. It is highly fire resistant and used successfully in the mining industry. <i>Cosmolubric B-series</i> has higher thermal stability and is less expensive than fire-resistant, polyol ester-based hydraulic fluids.	<b>Houghton International, Inc.</b> PO Box 930 Madison and Van Buren Ave. Valley Forge, PA 19482 <a href="http://www.houghtonintl.com">http://www.houghtonintl.com</a>
	Hydro-safe (adheres to mil-prf-32073)	All-weather hydraulic fluid made with genetically engineered canola oil. It is used in high-pressure hydraulic equipment and is also available in a fire-resistant formulation.	<b>Hydro Safe Oil Division, Inc.</b> 13626 Pearwood Drive Dewitt, MI 48820 <a href="http://www.hydrosafe.com">http://www.hydrosafe.com</a>
	Agritech LLO	Soybean oil-based elevator hydraulic fluid used in the Statue of Liberty. It is associated with a pleasant odor for indoor air quality and lower operating costs.	<b>Bunge North America</b> 11720 Borman Drive St. Louis, Missouri 63146 <a href="http://www.bungenorthamerica.com">http://www.bungenorthamerica.com</a>
<b>Lubricants</b>	Enviro Logic	Line of vegetable oil-based fluids: dielectric greases, gear oils, two-stroke oils, and hydraulic fluids. Many products outperform their petroleum-based counterparts.	<b>Terresolve Technologies</b> 35585 Curtis Blvd Eastlake, OH 44095 <a href="http://www.terresolve.com">http://www.terresolve.com</a>
	Fifth-wheel Lubepaste	Lubricant used mainly on tractor-trailer surfaces. It creates a solid, thin lubricating film and is made from corn and soybean oils.	<b>Vibroacoustics Solutions, Inc.</b> 2205 229th Place Ames, IA 50014 <a href="http://www.vibroacoustics-solutions.com">http://www.vibroacoustics-solutions.com</a>
	Novus	- Group of lubricants made from natural and synthetic components. All are biodegradable and ISO-certified.	<b>Cargill</b> P.O. Box 5700, MS 66 Minneapolis, MN 55440 <b>Cargill Government Solutions</b> 1101 15th St. NW, Suite 1000 Washington, DC 20005 <a href="http://www.techoils.cargill.com">http://www.techoils.cargill.com</a>
	Safe-lube	- Line of industrial lubricants and metal-working fluids based on various plant-derived oils.	<b>Gemtek Products</b> 3808 North 28th Avenue Phoenix, AZ 85017 <a href="http://www.gemtek.com">http://www.gemtek.com</a>

**Biobased Products Listed by Category**  
Biobased Products – Enhancing DOD’s Mission; Protecting the Environment  
*Biobased Showcase and Educational Event*  
The Pentagon  
12 and 13 September, 2006

CATEGORY	PRODUCT NAME	PRODUCT DESCRIPTION	COMPANY
	Stabilized	High oleic acid, oil-based lubricants (soybean, corn, and canola). Used in both heavy-duty and high-performance equipment since they are effective in the most extreme operating environments. Successful implementations have included equipment operation at Pictured Rocks National Lakeshore in Northern Michigan and professional racing.	<b>Renewable Lubricants</b> 476 Griggy Road NW PO Box 474 Hartville, OH 44632 <a href="http://www.renewablelube.com">http://www.renewablelube.com</a>
<b>Packaging</b>	Biobag	Corn-starch-based bag with soybean-based ink labeling keeps contents fresh and is fully compostable. Used by the City of San Francisco in its residential food-waste collection program.	<b>BIOgroupUSA, Inc.</b> PO Box 369 Palm Harbor, Florida 34682-0369 <a href="http://www.biobagusa.com">http://www.biobagusa.com</a>
	EarthShell	Biobased plates and bowls made with limestone and potato and corn starches. They are disposable and backyard-compostable.	<b>EarthShell Corporation</b> 1301 York Road, Suite 200 Lutherville, Maryland 21093 <a href="http://www.earthshell.com">http://www.earthshell.com</a>
<b>Specialty Products</b>	Air-toner	First biobased toner product; compatible with most printers and copiers.	<b>Advanced Image Resources, LLC</b> 5910 Shiloh Rd. East Suite 123 Alpharetta, GA 30005 <a href="http://www.air-toner.com">http://www.air-toner.com</a>
	Aller-safe	- Dust and allergen suppressants. It is plant oil-based and useful in industrial and office settings. Products contain no surface-damaging metals.	<b>Gemtek Products</b> 3808 North 28th Avenue Phoenix, AZ 85017 <a href="http://www.gemtek.com">http://www.gemtek.com</a>
	Dustknocker, Biorain, Roadkill	Dust suppressants for outdoor use on country roads ( <i>Dustknocker</i> ), fields and arenas ( <i>Biorain</i> ), and public roadways ( <i>Roadkill</i> ). They are 100% biobased and provide surface stabilization as well as dust suppression.	<b>Dustkill, Inc</b> 552 Covered Bridge Road Greenwood, IN 46142 <a href="http://www.dustkillinc.com">http://www.dustkillinc.com</a>
	Envirostrip, e-strip	Moisture-resistant, abrasive media composed of acrylic-corn starch copolymers. Safe on metallic surfaces such as aluminum and aluminum alloy. Successful implementation at Aircraft Repair and Supply Center in Elizabeth City, NC.	<b>Archer Daniels Midland Company</b> 4666 Faries Parkway Decatur, IL 62526 <a href="http://www.envirostrip.com">http://www.envirostrip.com</a> <a href="http://www.admworld.com">http://www.admworld.com</a>

**Biobased Products Listed by Category**  
Biobased Products – Enhancing DOD’s Mission; Protecting the Environment  
*Biobased Showcase and Educational Event*  
The Pentagon  
12 and 13 September, 2006

CATEGORY	PRODUCT NAME	PRODUCT DESCRIPTION	COMPANY
	GreenTru	Composed of milled corn cobs, <i>GreenTru</i> is a powerful absorbent. Used as yard filler, feed or fertilizer delivery, or as a gentle abrasive for cleaning or stripping applications.	<b>Green Products Company</b> P.O. Box 756 Conrad, IA 50621 <a href="http://www.greenproducts.com">http://www.greenproducts.com</a>
	Specialty Chemicals	Consulting and other unique services for manufacturers.	<b>Rochester Midland</b> 33 Hollenbeck Street Rochester, NY 14621 <a href="http://www.rochestermidland.com">http://www.rochestermidland.com</a>